NAD SERVICE MANUAL

MONITOR SERIES

1000

STEREO PREAMPLIFIER

NAD-1000 CONTENTS

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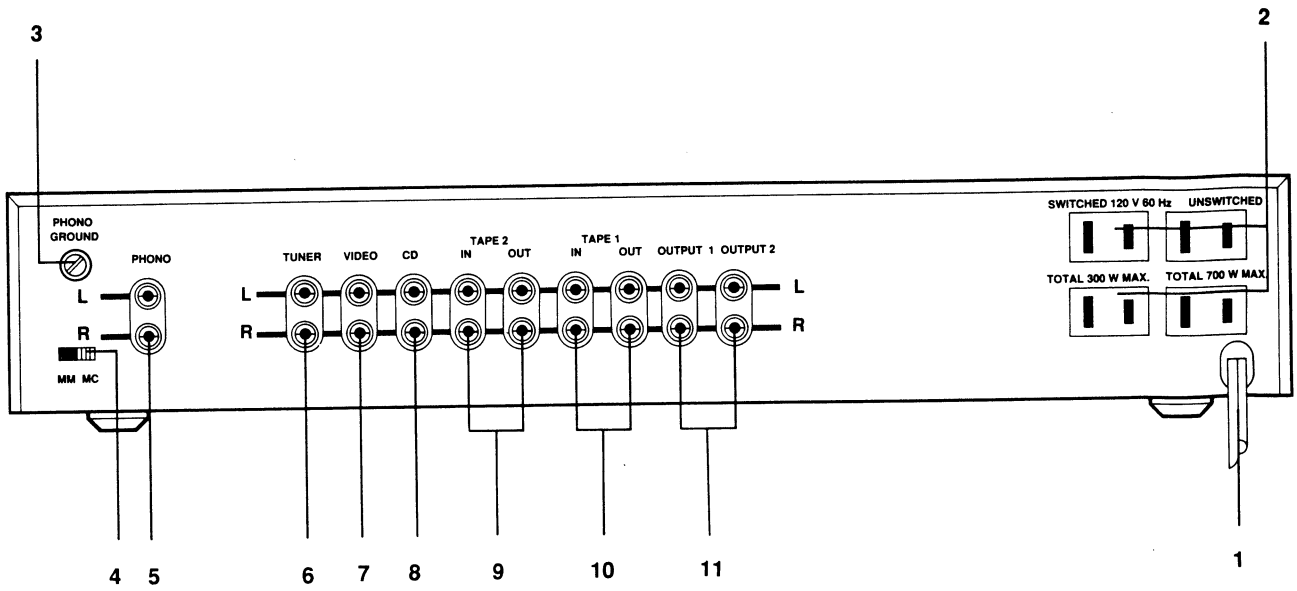
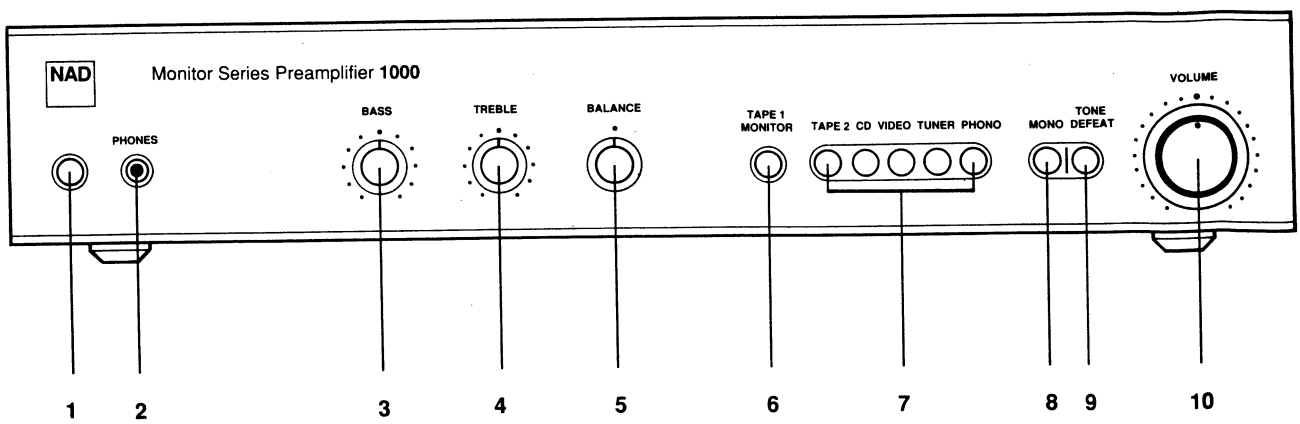
REAR PANEL CONNECTIONS

1. AC LINE CORD
2. AC OUTLETS
3. PHONO GROUND
4. MM/MC SELECTOR
5. PHONO INPUT
6. TUNER INPUT
7. VIDEO SOUND INPUT
8. CD INPUT
9. TAPE 2 INPUT/OUTPUT
10. TAPE 1 INPUT/OUTPUT
11. PREAMP OUTPUTS



FRONT PANEL CONNECTIONS

1. POWER
2. PHONES
3. BASS
4. TREBLE
5. BALANCE
6. TAPE 1 MONITOR
7. INPUT SELECTOR
8. MONO
9. TONE DEFEAT
10. VOLUME



NAD 1000 MONITOR SERIES PREAMPLIFIER SPECIFICATIONS

Measured in accordance with EIA Standard RS-490 (IHF A-202).

PHONO INPUT

Input impedance (R and C)	**MM and MC:**		47 kΩ + 200 pF
Input sensitivity ref. 0.5 V	**1 kHz**	**MM:**	1.5 mV
		MC:	0.1 mV
Input overload at 20 Hz/1 kHz/20 kHz		**MM:**	20 mV/200 mV/1700 mV
		MC:	1.3 mV/13 mV/100 mV
Signal/Noise ratio (A-weighted		**MM:**	76 dB ref. 5 mV
with cartridge connected)		**MC:**	76 dB ref. 0.5 mV
THD (20 Hz - 20 kHz) **and IM dist.**			<0.04%
RIAA accuracy			±0.5 dB

LINE LEVEL INPUTS (CD, Video, Tuner, Tape)

Input impedance (R and C)	20 kΩ + 450 pF
Input sensitivity ref. 0.5 V	80 mV
Maximum input signal	>10 V
Signal/Noise ratio, A-weighted (20 Hz - 20 kHz in tone defeat mode)	96 dB ref. 0.5 V
Frequency response	±0.2 dB
Infrasonic filter (fixed)	-3 dB at 10 Hz 18 dB/octave
THD	0.01%

LINE LEVEL OUTPUTS

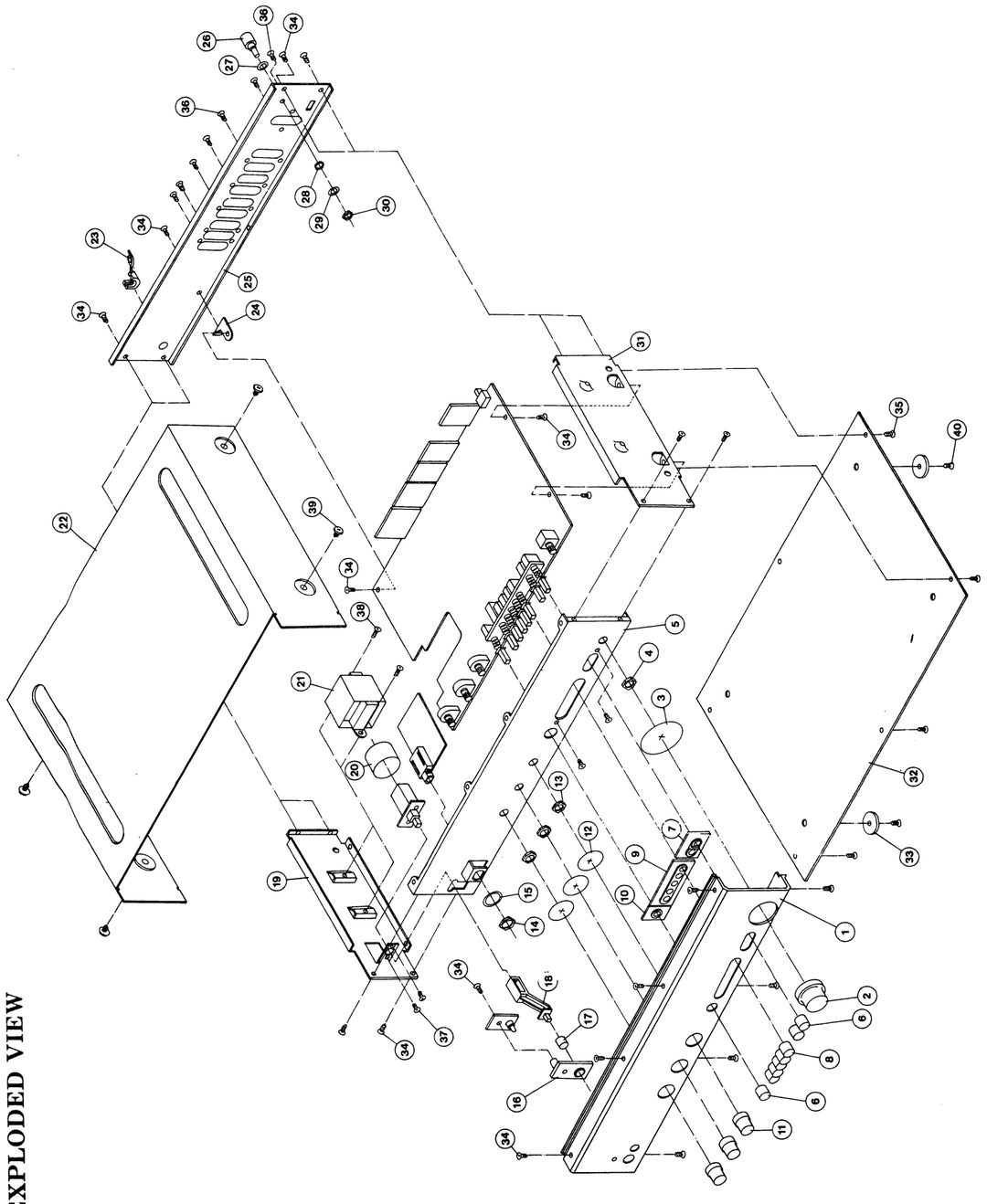
Output impedance	**Pre-amp**	220 ohms
	Tape	Source Z + 3200 ohms
	Phones	120 ohms
Maximum output level	**Pre-amp**	>12 V
	Tape	>10 V
	Phones	>8 V into 600 ohms >250 mV into 8 ohms

CONTROLS

Treble	±7 dB at 10 kHz
Bass	±10 dB at 50 Hz

PHYSICAL SPECIFICATIONS

Dimensions (Length x Width x Depth)	43.0 x 26.3 x 8.1 cm (16.0 x 10.5 x 3.25 in.)
Net Weight	3.7 kg (8lb 1 oz.)
Shipping Weight	4.4 kg (9lb 11 oz.)
Power Consumption	17 W at 120, 220 or 240 VAC 50/60 Hz

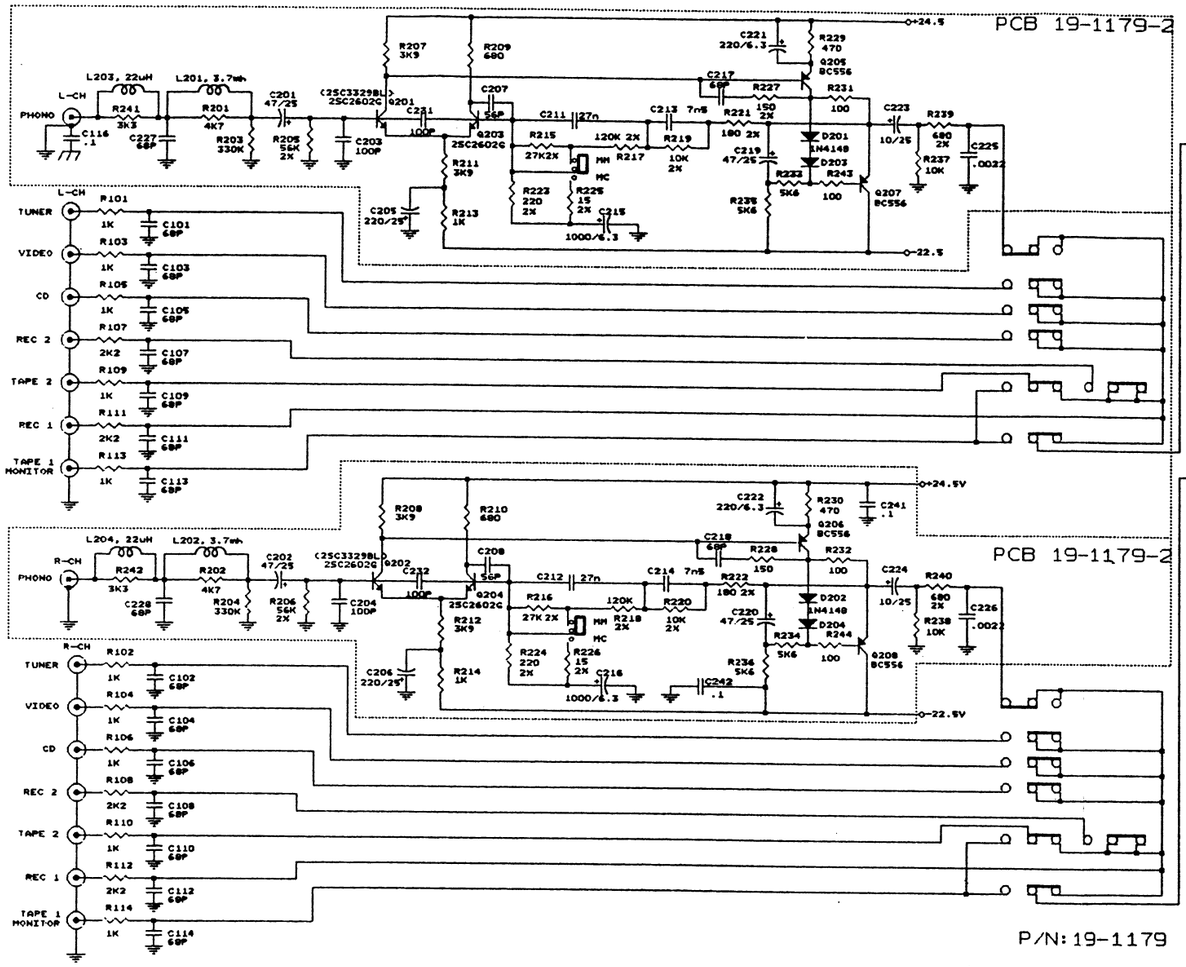


EXPLODED VIEW

EXPLODED PARTS LIST

1	11-8377	FRONT PANEL	NAD 1000
2	12-3113	KNOB	VOLUME/7100 5541537900
3	12-9003	FELT RING	L550D037H01 50Øx0.5
5	11-6116	FRONT CHASSIS	NAD 1000
6	12-3110	BUTTON BLACK	MONO,TONE DEF,MONITOR
7	13-8221-3	BEZEL 2 HOLE	L704C032H21
8	12-3110-1	BUTTON GRAY	TU,PH,TV,CD,TA2
9	13-8224	BEZEL 5 HOLE	NAD 1000
10	13-8221-2	BEZEL 1 HOLE	L704C032H11
11	12-3129	KNOB	BASS,TREBLE,BALANCE
12	12-9002	FELT RING	L550D037H02 30Øx0.5
16	13-8221-1	BEZEL POWER	L704C032H01
17	12-3148	BUTTON GREEN	P-021
18	12-1083	POWER LINK	1171300001
19	11-6117	FRAME L	L547B030H01
20	12-7103	TUBE/SVGS-UL	SVGS-UL,30Ø,60mm,1 DIA
21	29-2064	TRANSFORMER	Universal/PX-1914
22	50-1034	COVER TOP	L703A004H01
23	14-5003	BUSHINGS	4RF-5
24	11-2345	"L" BRACKET	NAD 1000
25	11-8378-1	REAR PANEL	US CN/ (120V) NAD 1000
25	11-8378-2	REAR PANEL	WG,EU,SA/ (220V) NAD 1000
25	11-8378-3	REAR PANEL	UK,AS/ (240V) NAD 1000
26	15-2037	GND BOLT	L531D018H01
26	15-2037-1	GND NUT	L670D002H01
27	15-2037-3	STOP WASHER	10Ø,4Ø,1mm
28	15-2037-5	GEAR WASHER	
29	15-2037-4	CONNECT WASHER	B3.5Ø,S1.5Ø,1.5mm
30	15-2037-2	BOLT NUT M3.5	L670D004H01
31	11-6118	FRAME R	L547B031H01
32	11-6119	COVER BOTTOM	L580B007H01
33	28-1044	A562	RUBBER-FOOT
34	S2B03+I06SL20	TAPPING SCREW	T3x6 BLACK
35	S2B03+I06SZ20	TAPPING SCREW	T3x6 COLOR
36	S6B03+I08SL20	TAPPING SCREW	T3x8 BLACK
37	S1B03+I06SL20	MACHINE SCREW	M3x6 BLACK
38	S2J03+I06SL20	TAPPING SCREW	T3x6 W/WASHER BLACK
39	S1K04+I06SL20	TAPPING SCREW	T3x6 W/WASHER BLACK
40	S1B04+I08SL20	MACHINE SCREW	M4x8 BLACK

SCHEMATIC DIAGRAM



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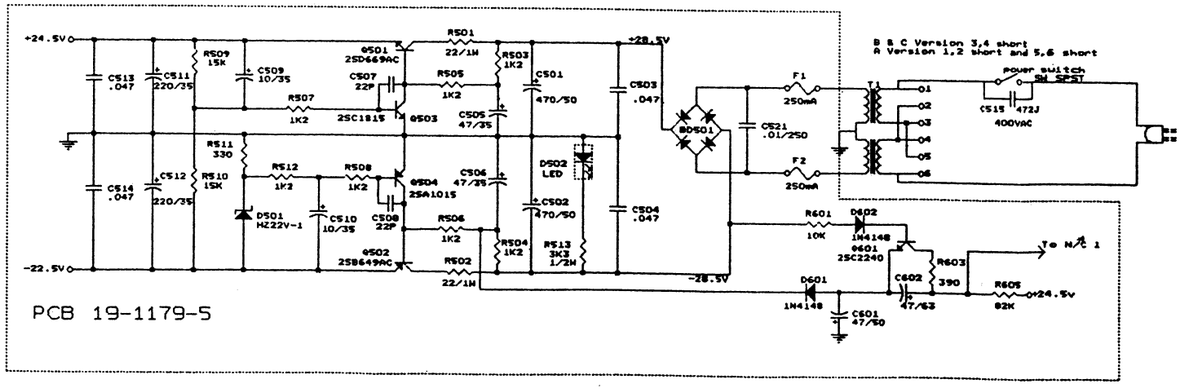
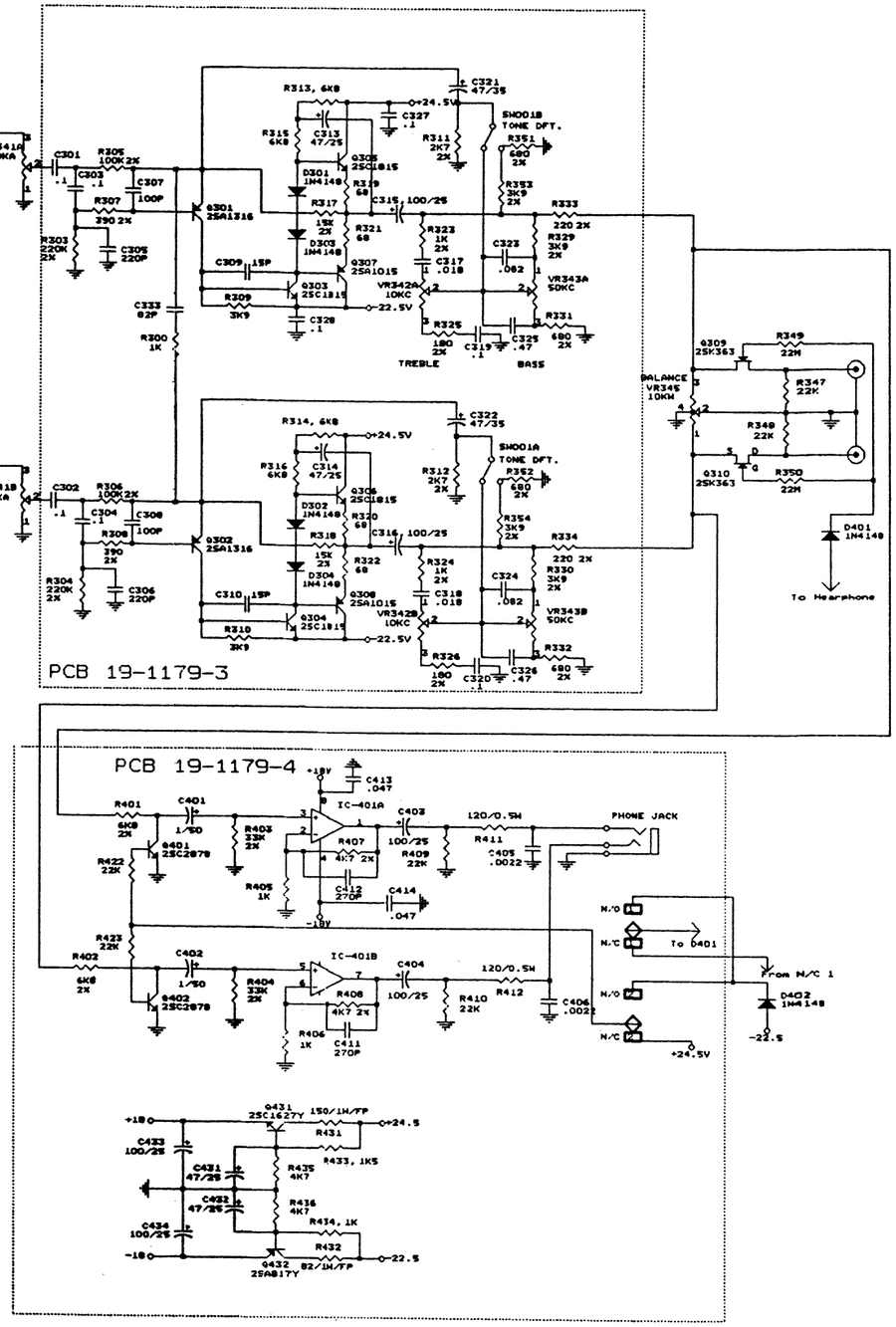
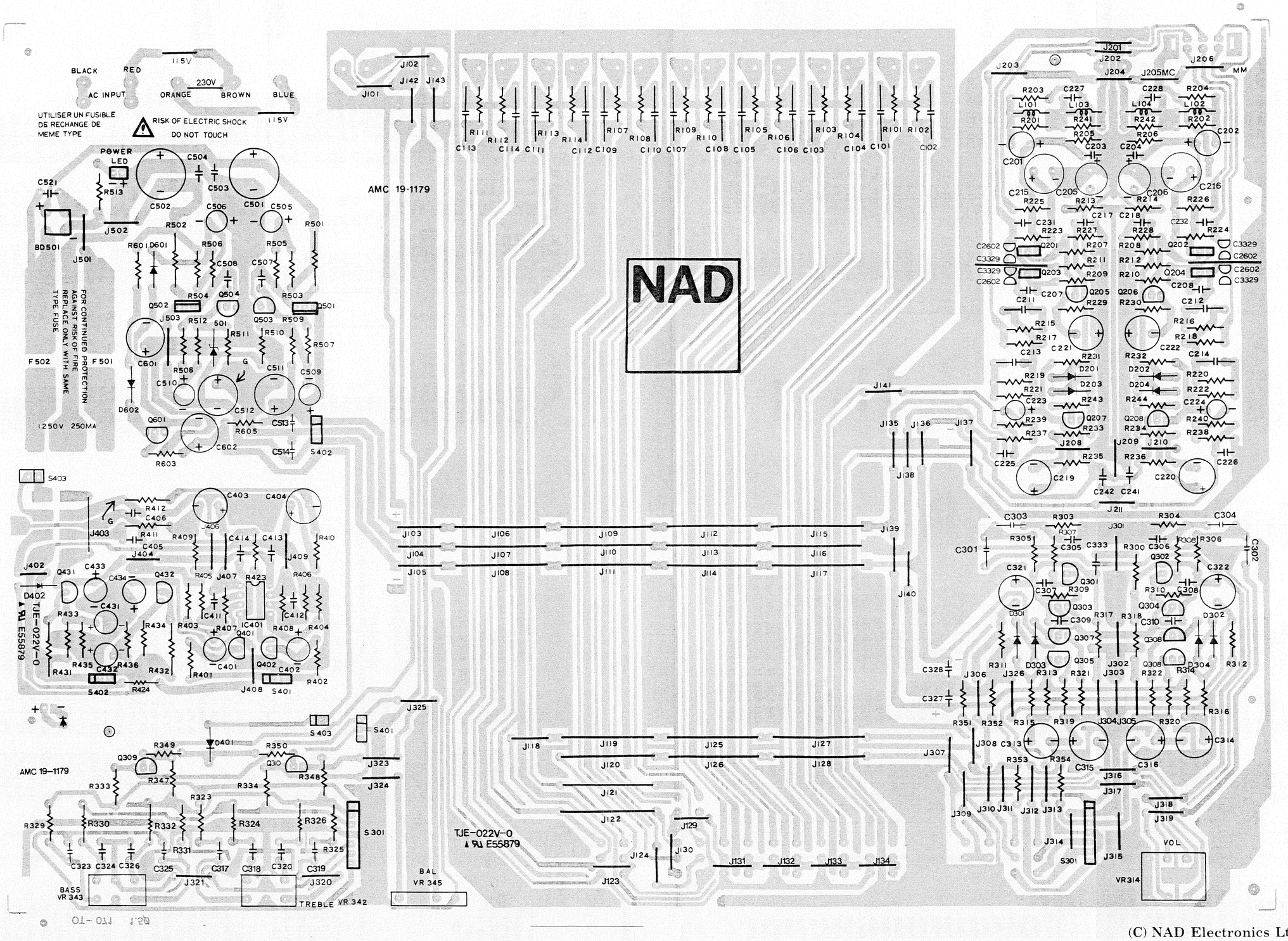




(C) NAD Electronics Ltd. 1990

PCB LAYOUT AND COMPONENT LOCATION



(C) NAD Electronics Ltd. 1990

SYMBOL NO.	Q'TY	I/D	PART NO.	DESCRIPTION	SPACIFICATION		V/No.
	1		NAD 1000	PREAMPILIFY	MONITOR SERIES		
	1		NAD1000-ASSY	ASS'Y	MECHANICAL		
	1		NAD1000-MO	ASS'Y	BOARD ASS'Y		
MECHANISM	1		NAD1000-PA	ASS'Y	AUTOINSERT		
MECHANISM	1		11-8377	FRONT PANEL	NAD 1000		11-8377
MECHANISM	1		11-6118	FRAME R	L547B031H01		L547B031H01
MECHANISM	1		11-6117	FRAME L	L547B030H01		L547B030H01
MECHANISM	1		11-2345	"L" BRACKET	NAD 1000		11-2345
MECHANISM	1	A	11-8378-1	REAR PANEL	US CN/ (120V)	NAD 1000	11-8378-1
MECHANISM	1	A1	11-8378-1	REAR PANEL	US CN/ (120V)	NAD 1000	11-8378-1
MECHANISM	1	C	11-8378-2	REAR PANEL	WG,EU,SA/ (220V)	NAD 1000	11-8378-2
MECHANISM	1	C1	11-8378-2	REAR PANEL	WG,EU,SA/ (220V)	NAD 1000	11-8378-2
MECHANISM	1	B	11-8378-3	REAR PANEL	UK,AS/ (240V)	NAD 1000	11-8378-3
MECHANISM	1	B1	11-8378-3	REAR PANEL	UK,AS/ (240V)	NAD 1000	11-8378-3
MECHANISM	1		50-1034	COVER TOP	L703A004H01		L703A004H01
MECHANISM	1		11-6119	COVER BOTTOM	L580B007H01		L580B007H01
MECHANISM	1		11-6116	FRONT CHASSIS	NAD 1000		11-6116
MECHANISM	1		12-3113	KNOB	VOLUME/T100 5541537900		5541537900
MECHANISM	3		12-3129	KNOB	BASS,TREBLE,BALANCE		5541537510
MECHANISM	1		12-1083	POWER LINK	1171300001		1171300001
MECHANISM	1		12-3148	BUTTON GREEN	POWER		L704D105H01
MECHANISM	3		12-3110	BUTTON BLACK	MONO,TONE DEF,MONITOR		L704D106H01
MECHANISM	5		12-3110-1	BUTTON GRAY	TU,PH,TV,CD,TA2		L704D106H11
MECHANISM	1		13-8221-3	BEZEL 2 HOLE	704C032H21		704C032H21
MECHANISM	1		13-8221-2	BEZEL 1 HOLE	704C032H11		704C032H11
MECHANISM	1		13-8221-1	BEZEL POWER	704C032H01		704C032H01
MECHANISM	1		13-8224	BEZEL 5 HOLE	NAD 1000		13-8224
POWER	4	A	12-2110	AC INLET	SI6519		L449Y002H02
POWER	4	A1	12-2110	AC INLET	SI6519		L449Y002H02
POWER	1	A	14-5027	POWER-CORD	A1, A (US,GP,CN)		
POWER	1	A1	14-5027	POWER-CORD	A1, A (US,GP,CN)		
POWER	1	B	14-5025	POWER-CORD	B (UK)		U242C872H06
POWER	1	B1	14-5022	POWER-CORD	B1 (AS)		L242Y013H01
POWER	1	C	14-5028	POWER-CORD	C2, C1, C (WG,EU,SA)		U242C809H19
POWER	1	C1	14-5028	POWER-CORD	C2, C1, C (WG,EU,SA)		U242C809H19
POWER	1		14-5003	BUSHINGS	4RP-5		L540D501H01
POWER	1		29-2064	TRANSFORMER	Universal/PX-1914		PX-1914
POWER	1	B	12-1068	WJ-2/C4	CLOSED END CONNECTOR		
POWER	1	B1	12-1068	WJ-2/C4	CLOSED END CONNECTOR		
POWER	1	C	12-1068	WJ-2/C4	CLOSED END CONNECTOR		
POWER	1	C1	12-1068	WJ-2/C4	CLOSED END CONNECTOR		
POWER	1		31-1213	SW-POWER	SDDLB1007U-EK TV-3		
POWER	3		12-9002	FELT RING	L550D037H02 30Øx0.5		12-9002
POWER	1		12-9003	FELT RING	L550D037H01 50Øx0.5		12-9003
POWER	1	B	14-10001	LEAD POWER SW	UL1617#22 390+15mm BWN		
POWER	1	B1	14-10001	LEAD POWER SW	UL1617#22 390+15mm BWN		
POWER	1	C	14-10001	LEAD POWER SW	UL1617#22 390+15mm BWN		
POWER	1	C1	14-10001	LEAD POWER SW	UL1617#22 390+15mm BWN		
POWER	1	B	14-10002	LEAD POWER SW	UL1617#22 380+15mm ORG		
POWER	1	B1	14-10002	LEAD POWER SW	UL1617#22 380+15mm ORG		
POWER	1	C	14-10002	LEAD POWER SW	UL1617#22 380+15mm ORG		

SYMBOL NO.	Q'TY	I/D	PART NO.	DESCRIPTION	SPACIFICATION	V/No.
POWER	1	C1	14-10002	LEAD POWER SW	UL1617#22 380+15mm ORG	
INLET TO PCB	1	A	14-1000A	LEAD WIRE	UL1617#22 150+15mm RED	
INLET TO PCB	1	A1	14-1000A	LEAD WIRE	UL1617#22 150+15mm RED	
INLET TO PCB	1	A	14-1000B	LEAD WIRE	UL1617#22 150+15mm BLK	
INLET TO PCB	1	A1	14-1000B	LEAD WIRE	UL1617#22 150+15mm BLK	
INLET TO PCB	3	A	14-1000C	LEAD WIRE	UL1617#22 80+15mm BLK	
INLET TO PCB	3	A1	14-1000C	LEAD WIRE	UL1617#22 80+15mm BLK	
INLET TO INLET	2	A	14-1000D	LEAD WIRE	UL1617#22 80+15mm RED	
INLET TO INLET	2	A1	14-1000D	LEAD WIRE	UL1617#22 80+15mm RED	
POWER	1	A	14-1000E	LEAD WIRE	UL1617#22 210+15mm ORG	
POWER	1	A1	14-1000E	LEAD WIRE	UL1617#22 210+15mm ORG	
POWER	1	A	14-1000F	LEAD WIRE	UL1617#22 230+15mm BWN	
POWER	1	A1	14-1000F	LEAD WIRE	UL1617#22 230+15mm BWN	
	1		14-10003	FLAT CABLE	UL2877#26 280mm 7P BLK KINK	
	1		14-10004	FLAT CABLE	UL2877#26 240mm 3P BLK KINK	
	1		14-10005	FLAT CABLE	UL2877#26 270mm 3P BLK KINK	
	1		14-10006	FLAT CABLE	UL2877#26 220mm 2P BLK KINK	
	1		14-10007	LEAD WIRE	UL1007#20 330mm BLK KINK	
	1		14-10008	LEAD WIRE	UL1007#20 110mm BLK KINK	
	1		14-10009	LEAD WIRE	UL2877#26 430mm 2P BLK KINK	
POWER SW COVER	1		12-7103	TUBE/SVGS-UL	SVGS-UL,30Ø,60mm,1 DIA	U070S670H01
472 CAP. COVER	1		12-7104	TUBE/SVGS-UL	SVGS-UL,10Ø,20mm,1 DIA	
	4		28-1044	A562	RUBBER-FOOT	L771D011H01
	1		21-2288	L851D056H01	INSPECTION LABEL	L851D056H01
	2.5	A	21-2284-A	5535444900	120V/UL-1 VERSION LABEL	
	2.5	A1	21-2284-A1	5535444910	120V/UL-1 VERSION LABEL	
	2.5	B	21-2284-B	5535444920	240V/BS VERSION LABEL	
	2.5	B1	21-2284-B1	5535444930	240V/SA-2 VERSION LABEL	
	2.5	C	21-2284-C	5535444940	220V/CEE2 VERSION LABEL	
	2.5	C1	21-2284-C1	5535444950	220V/CEE2 VERSION LABEL	
	3		21-2306	SERIES LABEL	M1000xxxxx	21-2306
B Version only	1	B	21-2307	POWER TAG	B Version only	
UL only	2	A1	21-2315	CAUTION LABEL	UL only	
TUV only	1	C1	TUV-1000	FTZ LABEL	TUV only	
UL only	1	A1	UL-1000	UL LABEL	UL only	
CSA only	1	A	CSA-1000	CSA LABEL	CSA only	
NAD SUPPORT	0.5		21-2302	PACKING LABEL	NAD SUPPORT	
	1		28-2070	L552D013H01	EVA CUSHION SPONGE	
POWER SECTION	1		28-3001	ISOLATE PVC	U100(PE) .5x80x30m/m	
AC INLET	1	A	28-3002	ISOLATE PVC	PRS-825 .5x80x45m/m BK	
AC INLET	1	A1	28-3002	ISOLATE PVC	PRS-825 .5x80x45m/m BK	
	1		21-4041	INSTRUCTION	OWNER'S MANUAL	
	1	A1	21-3004	SAFETY INSTRUCTION		
MANUAL	1		27-0718	POLY BAG	240x338	L831D003H01
SET	1		26-0716	POLY BAG	380x550	L831D004H01
POWER CORD	1		26-0712	POLY BAG	200x100	
	15		14-5006	CABLE TIE	LCT-80 80x2.5mm	L243Y009H01
	1		27-2012	RCA CABLE	100cm	U096S004H01
	1	B	21-4034	WARRANTY CARD	UK	L850B016H11
	1	A	21-3006	WARRANTY CARD	CANADA	L850C008H01
	1	A1	21-3003S	WARRANTY CARD	US	

SYMBOL NO.	Q'TY	I/D	PART NO.	DESCRIPTION	SPACIFICATION	V/No.
	2		34-1059	POLYLONE		9520820155
	1		CT-5193	CARTON	INNER CARTON NAD 1000	
	0.25		CT-5194	CARTON	OUTER CARTON NAD 1000	
TOP COVER	4		S1E04+I06SL20	TAPPING SCREW	T3x6 W/WASHER BLACK	
SURROUND	20		S2B03+I06SL20	TAPPING SCREW	T3x6 BLACK	
BOTTOM COVER	6		S2B03+I06SZ20	TAPPING SCREW	T3x6 COLOR	
POWER/FUN. SW	4		S1B03+I06SL20	MACHINE SCREW	M3x6 BLACK	
RCA JACK	12		S6B03+I08SL20	TAPPING SCREW	T3x8 BLACK	
FOOT	4		S1B04+I08SL20	MACHINE SCREW	M4x8 BLACK	
X'MER	2		S2J03+I06SL20	TAPPING SCREW	T3x6 W/WASHER BLACK	
	1		15-2037	SHAFT-GND	L531D018H01	
	1		15-2037-1	NUT GND	L670D002H01	
	1		15-2037-2	NUT M3.5	L670D004H01	
	1		15-2037-3	WASHER	10Ø,4Ø,1mm	
	1		15-2037-4	CONNECT WASHER	B3.5Ø,S1.5Ø,1.5mm	
	1		15-2037-5	GEAR WASHER		
	1		90-1179	PCB ASS'Y	BOARD ASSEMBLY	
**********	**********		**********	**********	**********	**********
	1		19-1179	PCB-MAIN	NAD-1000 MAIN PCB	
R107,R108	4		16-1/4CA222J	RES. C. F.	2K2,1/4W,±5%,	
R111,R112	4		16-1/4CA222J	RES. C. F.	2K2,1/4W,±5%,	
R101-R106	10		16-1/4CA102J	RES. C. F.	1K,1/4W,±5%,	
R109,R110	10		16-1/4CA102J	RES. C. F.	1K,1/4W,±5%,	
R113,R114	10		16-1/4CA102J	RES. C. F.	1K,1/4W,±5%,	
C101-C114	14		17-5SR101J	CAP. SA	P.S.,100pF/50V,±5%	
	28		13-4087	PLASTIC WASHER	4.5Øx4.2mm	104
C116	1		17-5CR104M	CAP.	C.C.,0.1uF/50V,±20%	
PH/TU/VI/CD/TA2	1		31-1210	SW-SEL (P)	SPUN51K004-EK	
TONE DEFECT & MONO	1		31-1209	SW-SEL (P)	SPUN21K006-EK	
(31-1209) + (31-1210)	0		31-1207	SW-SEL (S)	SPUN71K002-EK	
MONITOR	1		31-1211	SW-MONITOR	SPUN12K801-EK	
VR345/BALANCE	1		29-4141	VR BAL	RK163111E291-10KW-EK	
VR341/VOLUME	1		29-4146	VR VOL	RK18112A0-20KAX2	
TU,TV,TA2(O),TA1(I)	2		12-2092	RCA JACK, 4P	12-2092, TGT	12-2092
CD,TA2(I)	1		12-2092GL	RCA JACK, 4P	GOLD PLATE LEFT	12-2092GL
TA1(O),O/P(1,2)	1		12-2093	RCA JACK, 6P	12-2093, TGT	12-2093
**********	**********		**********	**********	**********	**********
	1		19-1179-2	PCB-SUB	PHONO CKT	
R231,R232	2		16-1/4CA101J	RES. C. F.	100,1/4W,±5%	
R243,R244	2		16-1/4CA101J	RES. C. F.	100,1/4W,±5%	
R213,R214	2		16-1/4CA102J	RES. C. F.	1K,1/4W,±5%	
R237,R238	2		16-1/4CA103J	RES. C. F.	10K,1/4W,±5%	
R227,R228	2		16-1/4CA151J	RES. C. F.	150,1/4W,±5%	
R241,R242	2		16-1/4CA332J	RES. C. F.	3K3,1/4W,±5%	
R203,R204	2		16-1/4CA334J	RES. C. F.	330K,1/4W,±5%	
R207,R208	2		16-1/4CA392J	RES. C. F.	3K9,1/4W,±5%	
R211,R212	2		16-1/4CA392J	RES. C. F.	3K9,1/4W,±5%	
R229,R230	2		16-1/4CA471J	RES. C. F.	470,1/4W,±5%	
R201,R202	2		16-1/4CA472J	RES. C. F.	4K7,1/4W,±5%	
R233-R236	4		16-1/4CA562J	RES. C. F.	5K6,1/4W,±5%	
R209,R210	2		16-1/4CA681J	RES. C. F.	680,1/4W,±5%	

SYMBOL NO.	Q'TY	I/D	PART NO.	DESCRIPTION	SPACIFICATION	V/No.
R219,R220	2		16-1/4MA103G	RES. M. F.	10K,1/4W,±2%	
R217,R218	2		16-1/4MA124G	RES. M. F.	120K,1/4W,±2%	
R225,R226	2		16-1/4MA150G	RES. M. F.	15,1/4W,±2%	
R221,R222	2		16-1/4MA181G	RES. M. F.	180,1/4W,±2%	
R223,R224	2		16-1/4MA221G	RES. M. F.	220,1/4W,±2%	
R215,R216	2		16-1/4MA273G	RES. M. F.	27K,1/4W,±2%	
R205,R206	2		16-1/4MA563G	RES. M. F.	56K,1/4W,±2%	
R239,R240	2		16-1/4MA681G	RES. M. F.	680,1/4W,±2%	
C215,C216	2		17-0.63ER108M	CAP. EL.	1000uF/6V3,±20%	
C221,C222	2		17-0.63ER227M	CAP. EL.	220uF/6V3,±20%	
C223,C224	2		17-2.5ER106M	CAP. EL.	10uF/25V,±20%	
C205,C206	2		17-2.5ER227M	CAP. EL.	220uF/25V,±20%	
C201-C202	2		17-2.5ER476M	CAP. EL.	47uF/25V,±20%	
C219,C220	2		17-2.5ER476M	CAP. EL.	47uF/25V,±20%	
C207,C208	2		17-5DR560J	CAP.	MC.C.,56pF/50V,±5%	
C217,C218	2		17-5DR680J	CAP.	MC.C.,68pF/50V,±5%	
C241,C242	2		17-5FR104J	CAP.	M.PE.,0.1uF/50V,±5%	
C203,C204	2		17-5SA101J	CAP. SR	P.S.,100pF/50V,±5%	
C231,C232	2		17-5SA101J	CAP. SR	P.S.,100pF/50V,±5%	
C225,C226	2		17-5PR222J	CAP.	P.P.,2n2F/50V,±5%	
C211,C212	2		17-5PR273J	CAP.	P.P.,27nF/50V,±5%	
C227,C228	2		17-5SA680J	CAP. SR	P.S.,68p/50V,±5%	
C213,C214	2		17-5PR752J	CAP.	P.P.,7n5F/50V,±5%	
L201,L202.	2		29-1089	COIL	Troid coil, 3.7mH	5564401300
L203,L204.	2		29-1091	COIL	Troid coil, 22uH	5564401330
D201-D204.	4		30-1N4148	DIODE	DIODE 1N4148	
Q201-Q204.	4		30-2SC3329B	TR.	2SC3329BL, TOSHIBA	
Q205-Q208.	4		30-BC556B	TR.	BC556(B), PHILIPH	
MM/MC	1		31-1212	SW-SLIDE	CY-02S-11	
PHONO IN	1		12-2123-1	RCA JACK, 2P/G	12-2123-1, TGT	12-2123-1
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			19-1179-3	PCB-SUB	PREAMP CKT	
VR342/TREBLE	1		29-4136	VR TREBLE	RK163121A106-10KC*2-EK	
VR343/BASS	1		29-4140	VR BASE	RK163121A155-50KC*2-EK	
Q301,Q302	2		30-2SA1316G	TR.	2SA1316GR, TOSHIBA	
Q309,Q310	2		30-2SK363G	TR.	2SK363GR, TOSHIBA	
Q307,Q308	2		30-2SA1015G	TR.	2SA1015GR, TOSHIBA	
Q303-Q306	4		30-2SC1815G	TR.	2SC1815GR, TOSHIBA	
D301-D305.	5		30-1N4148	DIODE	1N4148	
R300.	1		16-1/4CA102J	RES. C. F.	1K,1/4W,±5%	
R317,R318	2		16-1/4MA153G	RES. M. F.	15K,1/4W,±2%	
R347,R348	2		16-1/4CA223J	RES. C. F.	22K,1/4W,±5%	
R349,R350	2		16-1/4CA226J	RES. C. F.	22M,1/4W,±5%	
R309,R310	2		16-1/4CA392J	RES. C. F.	3K9,1/4W,±5%	
R319-R322.	4		16-1/4CA680J	RES. C. F.	68,1/4W,±5%	
R313-R316	4		16-1/4CA682J	RES. C. F.	6K8,1/4W,±5%	
R323,R324	2		16-1/4MA102G	RES. M. F.	1K,1/4W,±2%	
R305,R306	2		16-1/4MA104G	RES. M. F.	100K,1/4W,±2%	
R325,R326	2		16-1/4MA181G	RES. M. F.	180,1/4W,±2%	
R303,R304	2		16-1/4MA224G	RES. M. F.	220K,1/4W,±2%	
R333,R334	2		16-1/4MA221G	RES. M. F.	220,1/4W ±2%	

SYMBOL NO.	Q'TY	I/D	PART NO.	DESCRIPTION	SPACIFICATION	V/No.
R311,R312	2		16-1/4MA272G	RES. M. F.	2K7,1/4W,±2%	
R307,R308	2		16-1/4MA391G	RES. M. F.	390,1/4W,±2%	
R329,R330	2		16-1/4MA392G	RES. M. F.	3K9,1/4W,±2%	
R353,R354	2		16-1/4MA392G	RES. M. F.	3K9,1/4W,±2%	
R331,R332	2		16-1/4MA681G	RES. M. F.	680,1/4W,±2%	
R351,R352	2		16-1/4MA681G	RES. M. F.	680,1/4W,±2%	
C315,C316	2		17-2.5ER107ML	CAP.EL.	100uF/25V,±20%,L.L.	
C313,C314	2		17-2.5ER476ML	CAP.EL.	47uF/25V,±20%,L.L.	
C321,C322	2		17-3.5ER476ML	CAP.EL.	47uF/35V,±20%,L.L.	
C309,C310	2		17-5DR150J	CAP.	MC.C.,15pF/50V,±5%	
C325,C326	2		17-5FR474J	CAP.	M.PE.,0.47uF/50V,±5%	
C327,C328	2		17-5FR104J	CAP.	M.PE.,0.1uF/50V,±5%	
C319,C320	2		17-5FR104J	CAP.	M.PE.,0.1uF/50V,±5%	
C317,C318	2		17-5FR183J	CAP.	M.PE.,18nF/50V,±5%	
C323,C324	2		17-5FR823J	CAP.	M.PE.,82nF/50V,±5%	
C307,C308	2		17-5SR101J	CAP. SR	P.S.,100pF/50V,±5%	
C301-C304	4		17-5PR104J	CAP.	P.P.,0.1uF/50V,±5%	
C305,C306	2		17-5SR221J	CAP. SR	P.S.,220pF/50V,±5%	
C333.	2		17-5SR820J	CAP. SR	P.S.,82pF/50V,±5%	
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			19-1179-5	PCB-SUB	POWER CKT	
AC INPUT	10		13-6027	SQUARE PIN	1.0x16mm	
BD501	1		30-RB153M	BRIDGE DIODE	RB153 UL	L264D017H01
Q501	1		30-2SD669AC	TR.	2SD669A(C), HITACH	
Q502	1		30-2SB649AC	TR.	2SB649A(C), HITACH	
Q601	1		30-2SC2240G	TR.	2SC2240GR, TOSHIBA	
Q504	1		30-2SA1015G	TR.	2SA1015GR, TOSHIBA	
Q503	1		30-2SC1815G	TR.	2SC1815GR, TOSHIBA	
D501	1		30-HZ22-2	ZENNER DIODE	ZD-22V,1/2W,±5%	
D601,D602	2		30-1N4148	DIODE	1N4148	
F1,F2.	4		32S2014	CLAMPER	FUSE CLAMPER,CPF-011	
F1,F2.	2	A	32-2019	SGA0.25	250mA/125V,5ø x20mmT,SGA,UL	
F1,F2.	2	A1	32-2019	SGA0.25	250mA/125V,5ø x20mmT,SGA,UL	
F1,F2.	2	B	32-2020	218.250	250mA/250V,5ø x20mmT,SEMKO	
F1,F2.	2	B1	32-2020	218.250	250mA/250V,5ø x20mmT,SEMKO	
F1,F2.	2	C	32-2020	218.250	250mA/250V,5ø x20mmT,SEMKO	
F1,F2.	2	C1	32-2020	218.250	250mA/250V,5ø x20mmT,SEMKO	
R501,R502	2		16-1MK220J	RES. M.F.	22,1W,±5%,KINK	
R513.	1		16-1/2CA332J	RES. C.F.	3K3,1/2W,±5%,TAPE	
R601.	1		16-1/4CA103J	RES. C.F.	10K,1/4W,±5%	
R503-R508	7		16-1/4CA122J	RES. C.F.	1K2,1/4W,±5%	
R512	1		16-1/4CA122J	RES. C.F.	1K2,1/4W,±5%	
R509,R510	2		16-1/4CA153J	RES. C.F.	15K,1/4W,±5%	
R511.	1		16-1/4CA331J	RES. C.F.	330,1/4W,±5%	
R603.	1		16-1/4CA391J	RES. C.F.	390,1/4W,±5%	
R605.	1		16-1/4CA823J	RES. C.F.	82K,1/4W,±5%	
C515.	1		17-40CR472M	CAP.	4700pF/400V,±20%	
C509,C510	2		17-3.5ER106M	CAP.	10uF/35V,±20%	
C511,C512	2		17-3.5ER227M	CAP.	220uF/35V,±20%	
C501,C502	2		17-5ER477M	CAP.	470uF/50V,±20%	
C505,C506	2		17-3.5ER476M	CAP. EL.	47uF/35V,±20%	

SYMBOL NO.	Q'TY	I/D	PART NO.	DESCRIPTION	SPACIFICATION	V/No.
C601.	1		17-5ER476M	CAP. EL.	47uF/50V,±20%	
C602.	1		17-6.3ER476M	CAP. EL.	47uF/63V,±20%	
C507,C508	2		17-5DR220J	CAP.	MC.C.,22pF/50V,±5%	
C521.	1		17-25FR103J	CAP.	M.PE.,10nF/250V,±10%	
C503,C504	4		17-5FR473J	CAP.	M.PE.,47nF/50V,±5%	
C513,C514	4		17-5FR473J	CAP.	M.PE.,47nF/50V,±5%	
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	1		19-1179-L	PCB-SUB	FOR LED	
D502	1		30-SE2021	L.E.DIODE	LED/SE2021,GRN	
LED FIX	1		S2B03+I06SL20	TAPPING SCREW	T3x6 BLACK	
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	1		19-1179-4	PCB-SUB	HEADPHONE PCB	
	1		12-2128	HEADPHONE JACK	CPJ-061-9	
D402	1		30-1N4148	DIODE	1N4148	
IC1	1		30-NJM2043D	IC	NJM2043(D), JRC	
Q432	1		30-2SA817Y	TR.	2SA817Y, TOSHIBA	
Q431	1		30-2SC1627Y	TR.	2SC1627Y, TOSHIBA	
Q401,Q402	2		30-2SC2878A	TR.	2SC2878A, TOSHIBA	
R431	1		16-1MK151J	RES.M.F.	150,1W,±5%,KINK	
R432	1		16-1MK820J	RES.M.F.	82,1W,±5%,KINK	
R411,R412	2		16-1/2CA121J	RES.C.F.	120,1/2W,±5%,TAPE	
R405,R406	3		16-1/4CA102J	RES.C.F.	1K,1/4W,±5%	
R434	3		16-1/4CA102J	RES.C.F.	1K,1/4W,±5%	
R433.	1		16-1/4CA152J	RES.C.F.	1K5,1/4W,±5%	
R409,R410	2		16-1/4CA223J	RES.C.F.	22K,1/4W,±5%	
R422,R423	2		16-1/4CA223J	RES.C.F.	22K,1/4W,±5%	
R435,R436	2		16-1/4CA472J	RES.C.F.	4K7,1/4W,±5%	
R403,R404	2		16-1/4MA333G	RES.M.F.	33K,1/4W,±2%	
R401,R402	2		16-1/4MA682G	RES.M.F.	6K8,1/4W,±2%	
R407,R408	2		16-1/4MA472G	RES.M.F.	4K7,1/4W,±2%	
C431,C432	2		17-2.5ER476M	CAP. EL.	47uF/25V,±20%	
C433,C434	2		17-2.5ER107M	CAP. EL.	100uF/25V,±20%	
C403,C404	2		17-2.5ER107M	CAP. EL.	100uF/25V,±20%	
C401,C402	2		17-5ER105M	CAP. EL.	1uF/50V,±20%	
C405,C406	2		17-5FR222J	CAP.	M.PE.2n2F/50V,±5%	
C411,C412	2		17-5DR271J	CAP.	MC.C.,270pF/50V,±5%	
C413,C414	2		17-5FR473J	CAP.	M.PE.,47nF/50V,±5%	
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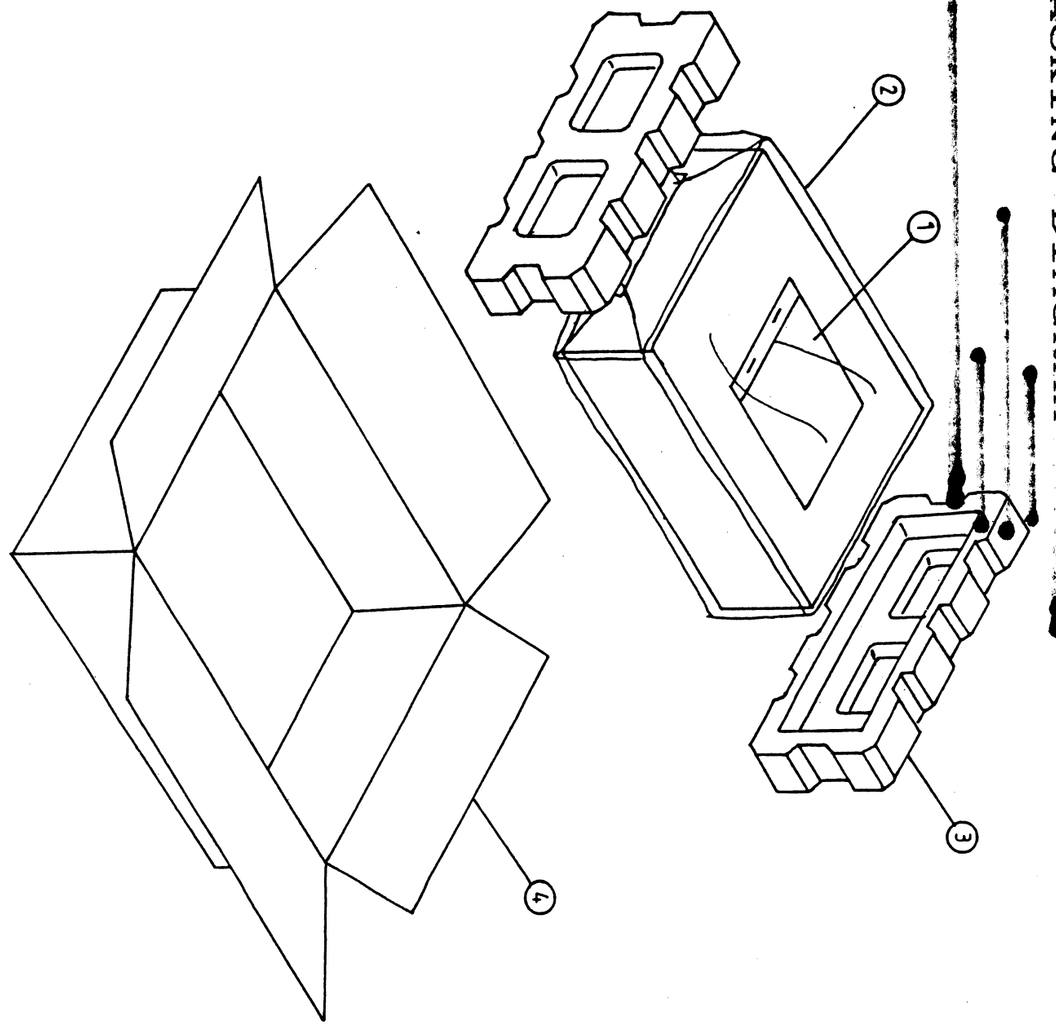
PACKING DIAGRAM



PACKING LIST FOR NAD-1000

ITEM	PARTS NUMBER	NAME	QTY
1	21-4041	ONWER'S MANUAL	1
2	26-0716	PE-BAG	1
3	34-1059	POLYLON	2
4	CT-5193	GIFT-BOX	1

NAD Electronics Ltd.
[redacted]
Model: 1000
Service Information
Issue 1
Date: 1 November 1990

Notes:

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SERVICE MANUAL

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STEREO PREAMPLIFIER

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LONDON